
From: Madelyn.Adams@epa.ohio.gov
To: Renninger, Steven; Patterson, Leslie
CC: mike.starkey@epa.ohio.gov; randall.kirkland@epa.ohio.gov
Sent: 8/31/2016 7:11:59 PM
Subject: RE: SDDL methane
Attachments: removed.txt

I'm not sure of how the summa canister analysis will show where the methane is coming from, can you provide some more background on the approach?

If they're thinking the methane is the result of microbial breakdown of benzene, then they should provide some evidence with samples of the soil/ground water that indicate the presence of these methanogenic microbes and a discussion of the stoichiometry of the breakdown process and methanogenesis process to indicate how much methane could be generated. Would we expect to see as much as 5% methane? If so, should we (OEPA/USEPA) be reaching out to BUSTR and DP&L to have them further look into this? They could have a much bigger problem towards the center of the benzene plume.

Have they also taken a summa canister sample at GP-23 as it now has detections of methane? Could GP-02 be influencing GP-23?

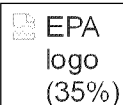
From: Renninger, Steven [mailto:renninger.steven@epa.gov]
Sent: Wednesday, August 31, 2016 2:11 PM
To: Adams, Madelyn ; Patterson, Leslie
Cc: Starkey, Mike ; Kirkland, Randall
Subject: RE: SDDL methane

Since EPA installed the monitoring probes along Dryden several years ago during the removal investigation, the PRPs position (via GHD) has been that the subsurface gas in GP-2 is from a UST removal near DP&L 30 years ago. We have requested that GHD obtain data using summa canisters and lab analysis to confirm this. The data is pending.

Leslie: Did I summarize this correctly?

Thanks.

Steve Renninger
On-Scene Coordinator
US EPA Region 5
Emergency Response Branch
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Cincinnati, OH 45268
513-260-7849



From: Madelyn.Adams@epa.ohio.gov [mailto:Madelyn.Adams@epa.ohio.gov]
Sent: Wednesday, August 31, 2016 1:37 PM
To: Patterson, Leslie <patterson.leslie@epa.gov>; Renninger, Steven <renninger.steven@epa.gov>
Cc: mike.starkey@epa.ohio.gov; randall.kirkland@epa.ohio.gov
Subject: RE: SDDL methane

On what basis does GHD maintain that the methane detection at the edge of the landfill indicates a local condition, not

related to the landfill? Can I get a copy of the documents GHD has on the utilities in this area? I am concerned that my upper management will want a faster reaction to this, it's been going on for a month at this point and we still don't know where it's coming from.

From: Hayward, Julian [<mailto:Julian.Hayward@ghd.com>]

Sent: Wednesday, August 31, 2016 12:15 PM

To: Patterson, Leslie <patterson.leslie@epa.gov>

Cc: Bryan Heath <Bryan.Heath@ncr.com>; James Campbell <jrc@e-emi.com>; Ken Brown <KBrown@ITW.com>; Adams, Madelyn <Madelyn.Adams@epa.ohio.gov>; Chan, Valerie <Valerie.Chan@ghd.com>; Wendell Barner (wendell.barner@gmail.com) <wendell.barner@gmail.com>; Renninger, Steven <renninger.steven@epa.gov>

Subject: RE: SDDL methane

Leslie, based on the elevated readings observed at GP-2 we are continuing weekly monitoring at GP-2 plus GP-7, GP12-09, GP22-13, GP23-13, GP24A-13 and GP24B-13.

On August 29 methane readings at GP-2 remain elevated above the LEL in unfiltered samples. On the same day the methane at GP23-13 was 3.4% (unfiltered) and all other readings were zero. So at present the only location with methane above the LEL is GP-2, on the east side of Dryden Road. We believe this is indicative of a local condition not related to the SDD site.

I will send a data table and figure showing gas probe locations separately, so that we can discuss further, thanks

Julian Hayward

GHD

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From: Patterson, Leslie [<mailto:patterson.leslie@epa.gov>]

Sent: Wednesday, August 31, 2016 11:36 AM

To: Hayward, Julian

Cc: Bryan Heath; James Campbell; Hayward, Julian; Ken Brown; Madelyn.Adams@epa.ohio.gov; Chan, Valerie; Wendell Barner (wendell.barner@gmail.com); Renninger, Steven

Subject: SDDL methane

Julian,

Which on-site probe was it that had the methane hit? Looking at Addendum 2 to the VI mitigation WP, it looks like "The detection of methane at GP-2 area probes at a level less than 100 percent of the LEL (5 percent methane) will require monthly sampling in accordance with the tiered sampling plan detailed in Table 2.1.". Please confirm if that is what you're planning. Our concern is determining the source of the methane and that monthly sampling won't give us the information we need for that.

Leslie Patterson
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